CLAIMS

What is claimed is:

	1	1.	An apparatus, comprising:
	2		a transaction facilitator;
	3		a split-completion transaction arbiter coupled to the transaction facilitator;
	4		and
	5		a split-completion buffer coupled to the transaction facilitator.
	1	2.	The apparatus of claim 1, further comprising:
	2		a split-completion commitment limit register;
	3		a total outstanding split-completion register; and
	4		a next split-completion size register.
	1	3.	The apparatus of claim 1, further comprising more than one bus coupled to said
The state of the s	2		transaction facilitator.
	1	4.	The apparatus of claim 1, wherein said transaction facilitator comprises an
2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2		initiator and a completer.
	1	5.	The apparatus of claim 1, wherein said split-completion arbiter comprises a
	2		fairness determiner.
	1	6.	The apparatus of claim 5, wherein the fairness determiner comprises a round robin
	2		determiner.
	1	7.	The apparatus of claim 5, wherein the fairness determiner comprises a fixed-
	2		priority determiner.
	1	8.	The apparatus of claim 1, wherein said split-completion transaction arbiter
	2		comprises a latency counter coupled to said transaction facilitator.
	1	9.	The apparatus of claim 1, wherein said split-completion buffer comprises:
	2		a first-bus buffer coupled to a first split-completion transaction arbiter; and

- a second-bus buffer coupled to a second split-completion transaction
- 4 arbiter.

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1	10.	A method, comprising:
2		receiving a transaction;
3		storing a split-completion for the transaction;
4		arbitrating the split-completion; and
5		initiating a split-completion transaction in response to said arbitrating the
6		split-completion.
1	11.	The method of claim 10 further comprising responding to the transaction with a
2		split response.
1	12.	The method of claim 10 wherein said receiving a transaction comprises receiving
2		part of an initiated sequence of transactions.
1	13.	The method of claim 10 wherein said storing a split-completion for the transaction
2		comprises storing a sequence identification and a command identification.
1	14.	The method of claim 13 wherein said storing a split-completion for the transaction
2		further comprises storing data corresponding to the command identification.
1	15.	The method of claim 10 wherein said arbitrating the split-completion comprises
2		determining a ranking of a split-completion transaction for the split-completion.
1	16.	The method of claim 10 wherein said arbitrating the split-completion comprises
2		limiting the duration of a split-completion transaction for the split-completion.
1	17.	The method of claim 10 wherein said initiating a split-completion transaction
2		comprises transmitting a completion message.
1	18.	The method of claim 10 wherein said initiating a split-completion transaction
2		comprises forwarding a split-completion.

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	1	19.	A system, comprising:
	2		a requester;
	3		an arbiter bridge coupled to said requester;
	4		a microprocessor coupled to said arbiter bridge; and
	5		a target device coupled to said arbiter bridge.
	1 2	20.	The system of claim 19, further comprising a bus arbiter coupled to said arbiter bridge.
	1	21.	The system of claim 19, wherein said requester comprises a second
The first first first first line that the	2		microprocessor coupled to said arbiter bridge.
	1	22.	The system of claim 19, wherein said requester comprises:
	2		a sequence initiator coupled to said arbiter bridge; and
	3		a sequence requester coupled to said arbiter bridge.
The state of the s	1 2	23.	The system of claim 19, wherein said arbiter bridge comprises: a transaction facilitator;
	3		a split-completion transaction arbiter coupled to the transaction facilitator;
	4		and
	5		a split-completion buffer coupled to the transaction facilitator.
	1 2	24.	The system of claim 19, wherein said target device comprises a memory device coupled to said arbiter bridge.

1	25.	A machine-readable medium containing instructions, which when executed by a
2		machine, cause said machine to perform operations, comprising:
3		receiving a transaction;
4		storing a split-completion for the transaction;
5		arbitrating the split-completion; and
6		initiating a split-completion transaction in response to said arbitrating the
7		split-completion.
1	26.	The machine-readable medium of claim 25 wherein said receiving a transaction
2		comprises receiving part of an initiated sequence of transactions.
1	27.	The machine-readable medium of claim 25 wherein said storing a split-completion
2		for the transaction comprises storing a sequence identification and a command
3		identification.
1	28.	The machine-readable medium of claim 25 wherein said arbitrating the split-
2		completion comprises determining a ranking of a split-completion transaction for
3		the split-completion.

The machine-readable medium of claim 25 wherein said initiating a split-

completion transaction comprises transmitting a completion message.

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